

**Remarks****Claims:**

Claims 1-3, 4-12, and 14-21 remain pending in the application. Claim 11 is amended in an editorial manner.

**Art-Based Rejections:**

Claims 1, 3, 8, 10, 11, 13, 14, 17 and 20 stand rejected as being anticipated by EP0650146 (Kodak). Claims 1-3, 5-8, 10-15, 17-20 stand rejected over Kodak in view of U.S. Patent No. 5,613,004 (Cooperman). Claim 9 stands rejected under Kodak, in view of Cooperman and in further view of U.S. Patent No. 5,467,447 (Vogel). Claim 16 stands rejected under Kodak, in view of U.S. patent No. 5,475,205 (Behm). We respectfully traverse these rejections.

***Claim 1***

Claim 1 recites – in combination with other features – a processor which receives a digital representation and a reference code associated therewith. *The reference code is included in the digital representation.* The processor includes an authentication information reader, and the processor: i) employs the reference code to retrieve the second authentication information associated therewith from the storage system.

Kodak does not show that a reference code, which is employed to retrieve second authentication information from a storage system, is included in a digital representation. Rather, it appears that the validation requestor identification code is merely sent to a validation requestor. This appears to be separate from any digital representation. See, e.g., Col. 3, lines 16-26.

Kodak at Col. 5, lines 34-58 calculates a pre-approval code from image data, but uses the validation requestor identification code to know which algorithm to use for the calculations. It is this requestor identification code that is separately sent, and not included in a digital representation.

We respectfully submit that Kodak is misapplied to claim 1 in the Office Action.

Claim 1 stands ready for allowance.

*Claim 3*

Claim 3 recites – in combination with other feature – a key is stored in the storage system and associated with the reference code; and the processor further employs the reference code to retrieve the key; and the authentication information reader uses the key to read the first authentication information. The processor receives the digital representation *along with* a reference code associated therewith.

As discussed above with respect to claim 1, in Kodak, it appears that the validation requestor identification code is merely sent to a validation requestor. This code does not appear to be sent along with any digital representation. See, e.g., Col. 3, lines 16-26.

Claim 3 stands ready for allowance.

*Claim 11*

Claim 11 recites that the embedded first authentication information is a *cryptographic hash* embedded as a watermark in a graphic on or in the analog form.

We disagree with the Office Action’s statement that Kodak’s “digital signature” is the same as a cryptographic hash. In the previous office action, the Office cited to Kodak at Col. 5, lines 25-34 are discussing a “digital signature”. We respectfully disagree.

In the context of that passage, we submit that a more reasonable reading is that the term “signature” means a human, handwritten signature. For example, the term “individual’s” at line 33 is understood to modify the term “signature” in addition to the terms “appearance” and “fingerprint.”

This human, handwritten signature is different than a cryptographic hash or digital signature.

Claim 11 also stands ready for allowance.

*Claim 12*

Claim 12 recites – in combination with other features – an analog form converter employing a communications system to send a digital representation and a reference code to a verification system, the reference code is included in the digital representation.

Claim 12 should be allowed for at least reasons analogous to those presented above under claim 1.

*Claim 14*

Claim 14 recites – in combination with other features – a reference code is sent in association with but not as part of a digital representation.

Claim 14 should be allowed for at least reasons analogous to those presented above under claim 3.

*Claim 17*

Claim 17 recites – in combination with other features – an analog form converter analyzing a digital representation to determine whether a verification system can check the authenticity of the digital representation before sending the digital representation.

The Office Action cites Kodak at Col. 3, lines 20-30 as meeting these features.

We respectfully disagree.

This passage discusses a credit approval process, and is not understood to discuss analyzing a digital representation to determine whether a verification system can check the authenticity of the digital representation before sending the digital representation.

Claim 17 stands ready for allowance.

*Claim 20*

Claim 20 recites – in combination with other features – routing a signal to a remote system or device based at least in part on the reference code. Kodak is not understood to making routing decision based on a reference code (or on, e.g., a validation requestor identification code).

The Office Action cites to Kodak at Col. 3, lines 15-20 and Fig. 3 (algorithm switch). This passage does discuss routing a signal to a remote system. Instead, it determines which out of a plurality of algorithms to use.

Claim 20 stands ready for allowance.

*Claim 8*

Claim 8 recites that a source receives the reference code from a user of the source.

The Office Action cites to Kodak at Col. 3, lines 12-20 as meeting these features. We disagree.

This passage seems to disclose using information extracted from an image (see, e.g., "This information" referring to the discussion at Col. 3, lines 8-11). This is not user supplied information as recited in claim 8.

Moreover, Kodak at Col. 7, lines 20-25, teaches away from using user supplied information by stating: "Another advantage is that the cardholder will not be required to carry any additional information, such as a PIN number...." (*emphasis added*). This teaches against using user supplied information.

The cited col. 3, lines 20-34, passage is not helpful either.

The rejection of this claim should be removed as well.

*Claim 10*

Claim 10 recites that there is a plurality of the apparatuses in the network; and a given one of the apparatuses uses the *reference code* to route the received digital representation and the reference code to another one of the apparatuses.

Here, the reference code is used to route the digital representation and the reference code to another of the apparatuses.

Recall that in the context of claim 10 (and base claim 1) the reference code is used to obtain authentication information from a storage system.

The Office Action cites to Kodak at Col. 3, lines 15-20, as meeting these features. We disagree. Instead, the cited passage refers to determining which out of a plurality of algorithms to use.

The rejection of claim 10 should be removed as well.

*Cooperman*

Cooperman is not understood to cure the deficiencies noted above.

*Remaining Claims*

The remaining claims are also believed to recite patentable combinations.

Favorable consideration is respectfully requested.

**Conclusion:**

We look forward to our upcoming interview. And, in the meantime, the Examiner is invited to contact the undersigned with any questions.

Respectfully submitted,

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